



# High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

## Pathway: Production/Processing Science & Management

Middle School		State Requirements		High School Suggested Education Plan				College & Careers																																																														
7 <sup>th</sup> Grade	8 <sup>th</sup> Grade	Middle School	High School	9 <sup>th</sup> Grade Suggested	10 <sup>th</sup> Grade Suggested	11 <sup>th</sup> Grade Suggested	12 <sup>th</sup> Grade Suggested	Beyond High School																																																														
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)																																																														
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																																																															
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biology–Agricultural Science or Biological Science 1.00	Animal Science or Plant and Soil Science 1.00																																																															
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																																																														
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																																																
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50																																																																	
			Financial Literacy	.50			Financial Literacy .50																																																															
Keyboarding .50			Computer Tech.	.50	Computer Technology .50																																																																	
CTE Intro 1.00		1.00	Career and Technical Education	1.00	<b>Career and Technical Education Recommended Pathway Courses</b> (Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.) <b>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</b>																																																																	
<b>Workforce Trends</b> According to the Utah Farm Bureau Federation, more than 100,000 people are employed by agriculture and agribusiness in the state of Utah.  <b>Get the Facts</b> Farmers and ranchers provide food and habitat for 75% of the nation's wildlife. One-fourth of the world's grain, milk, and eggs are produced in the United States.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor.  Concurrent enrollment course offerings vary by school and district.  Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.		<table border="1"> <thead> <tr> <th>Course #</th> <th>Foundation Courses: (required)</th> <th>Credit</th> </tr> </thead> <tbody> <tr> <td>01.0311</td> <td>Agricultural Science I</td> <td>1.00</td> </tr> <tr> <td>01.0321</td> <td>Agricultural Science II</td> <td>1.00</td> </tr> <tr> <td colspan="3"><b>Elective Courses:</b></td> </tr> <tr> <td>01.0111</td> <td>Agricultural Business Management</td> <td>1.00</td> </tr> <tr> <td>01.0331</td> <td>Agricultural Science III</td> <td>1.00</td> </tr> <tr> <td>02.0211</td> <td>Animal Science I</td> <td>1.00</td> </tr> <tr> <td>02.0241</td> <td>Animal Science II</td> <td>1.00</td> </tr> <tr> <td>01.0351</td> <td>Aquaculture, Introductory</td> <td>1.00</td> </tr> <tr> <td>01.0361</td> <td>Aquaculture, Advanced</td> <td>1.00</td> </tr> <tr> <td>02.0251</td> <td>Dairy Herd Management</td> <td>1.00</td> </tr> <tr> <td>02.0221</td> <td>Equine Science</td> <td>1.00</td> </tr> <tr> <td>02.0411</td> <td>Plant and Soil Science I</td> <td>1.00</td> </tr> <tr> <td>02.0421</td> <td>Plant and Soil Science II</td> <td>1.00</td> </tr> <tr> <td>02.0261</td> <td>Swine Herd Management</td> <td>1.00</td> </tr> <tr> <td>02.0231</td> <td>Veterinary Assistant</td> <td>1.00</td> </tr> <tr> <td>02.0235</td> <td>Veterinary Technician</td> <td>1.00</td> </tr> <tr> <td>01.0802</td> <td>Ag. Communications &amp; Leadership (capstone)</td> <td>1.00</td> </tr> <tr> <td>32.0199</td> <td>Student Internship (Critical Workplace Skills)</td> <td>.50</td> </tr> <tr> <td>01.0100</td> <td>Summer Agriculture Program</td> <td>.25</td> </tr> <tr> <td></td> <td>Supervised Agriculture Experience Program (capstone experience)</td> <td></td> </tr> </tbody> </table>	Course #	Foundation Courses: (required)	Credit	01.0311	Agricultural Science I	1.00	01.0321	Agricultural Science II	1.00	<b>Elective Courses:</b>			01.0111	Agricultural Business Management	1.00	01.0331	Agricultural Science III	1.00	02.0211	Animal Science I	1.00	02.0241	Animal Science II	1.00	01.0351	Aquaculture, Introductory	1.00	01.0361	Aquaculture, Advanced	1.00	02.0251	Dairy Herd Management	1.00	02.0221	Equine Science	1.00	02.0411	Plant and Soil Science I	1.00	02.0421	Plant and Soil Science II	1.00	02.0261	Swine Herd Management	1.00	02.0231	Veterinary Assistant	1.00	02.0235	Veterinary Technician	1.00	01.0802	Ag. Communications & Leadership (capstone)	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50	01.0100	Summer Agriculture Program	.25		Supervised Agriculture Experience Program (capstone experience)		2.00 credits	1.00 credits	3.00 credits for completion
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### Beyond High School

There are a number of options for education and training beyond high school, depending on your career goals.

- > Certificate
- > Associate degree
- > Bachelor's degree
- > Professional degree
- > On-the-job training
- > Apprenticeship
- > Military training

### Sample Occupations

- > Ag. Commodity Broker
- > Ag. Economist
- > Ag. Education Teacher
- > Ag. Journalist
- > Ag. Lender
- > Ag. Loan Officer
- > Ag. Marketing Specialist
- > Ag. Products Buyer
- > Farm/Ranch Manager
- > Feed/Farm Supply Manager
- > Livestock Buyer/Seller
- > Meat inspector
- > Pesticide Applicator
- > Produce Buyer

For more information on salary projections, labor market demand, and training options, visit [www.careers.utah.gov](http://www.careers.utah.gov).

**Note:** For more information, talk to your school counselor.